

28 and 35 MULTI-MAGNET NON-TYPING REPERFORATOR (LARP)

PARTS

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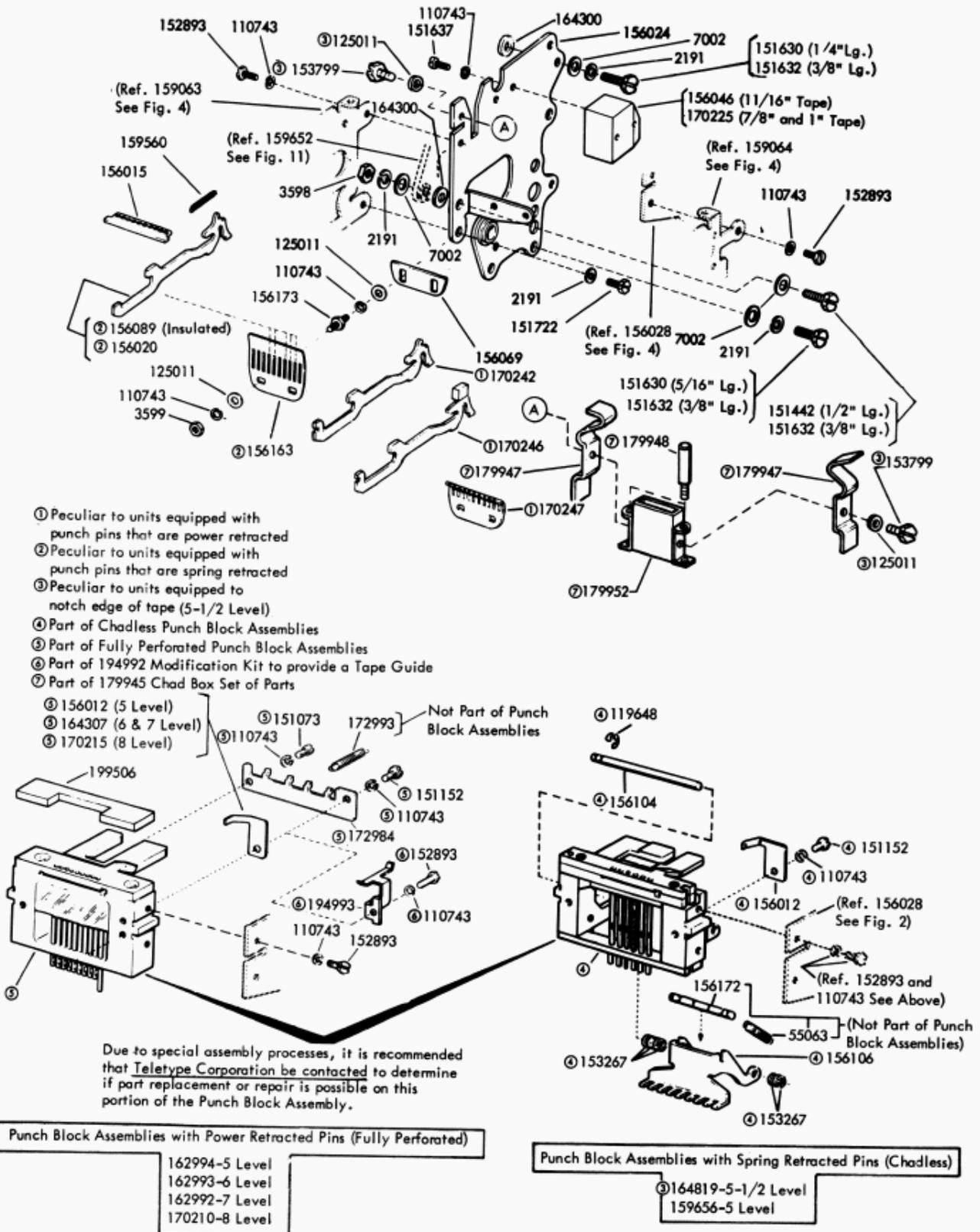


FIGURE 1. REAR PLATE AND PUNCH BLOCK ASSEMBLIES

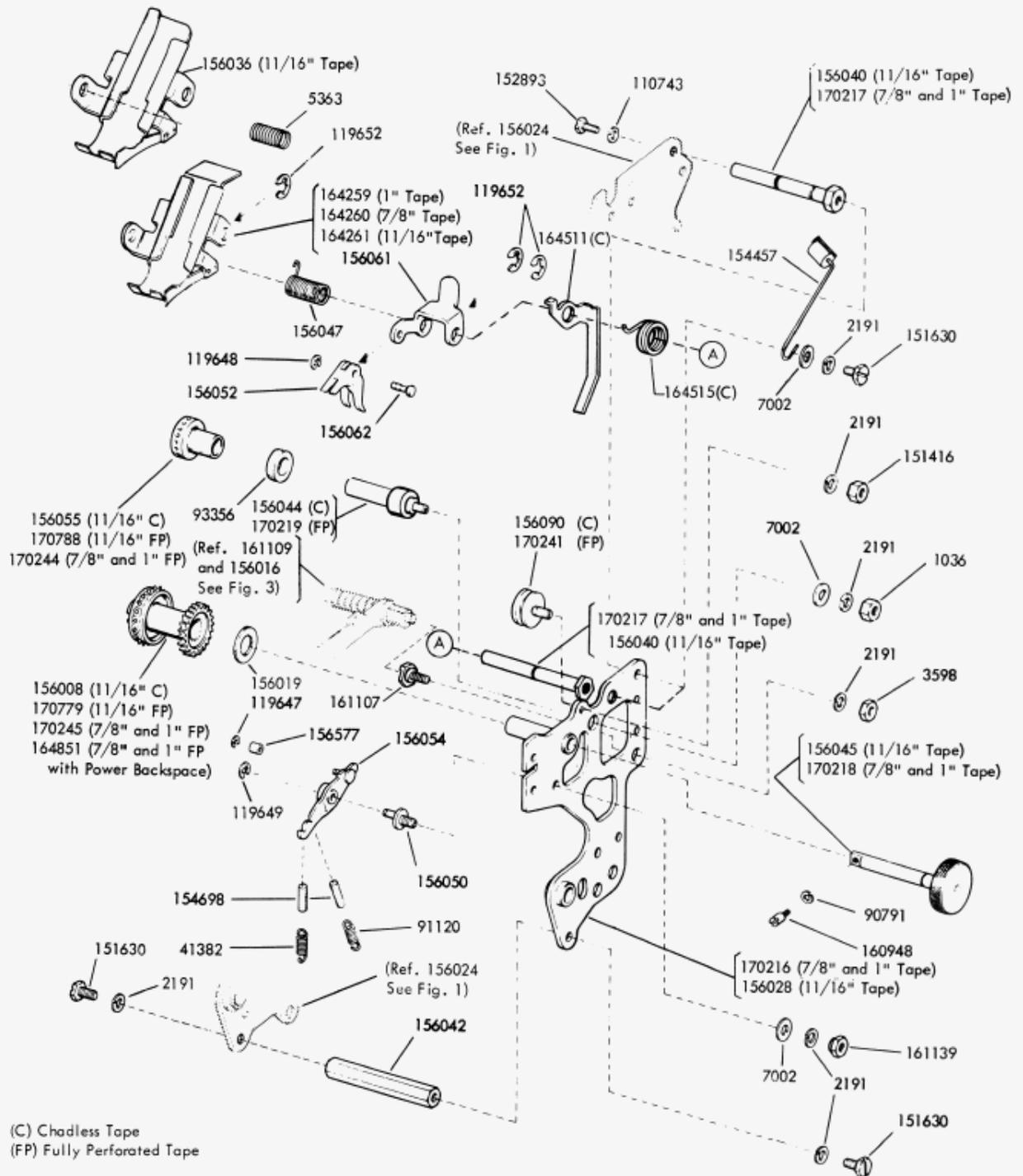


FIGURE 2. PUNCH FRONT PLATE

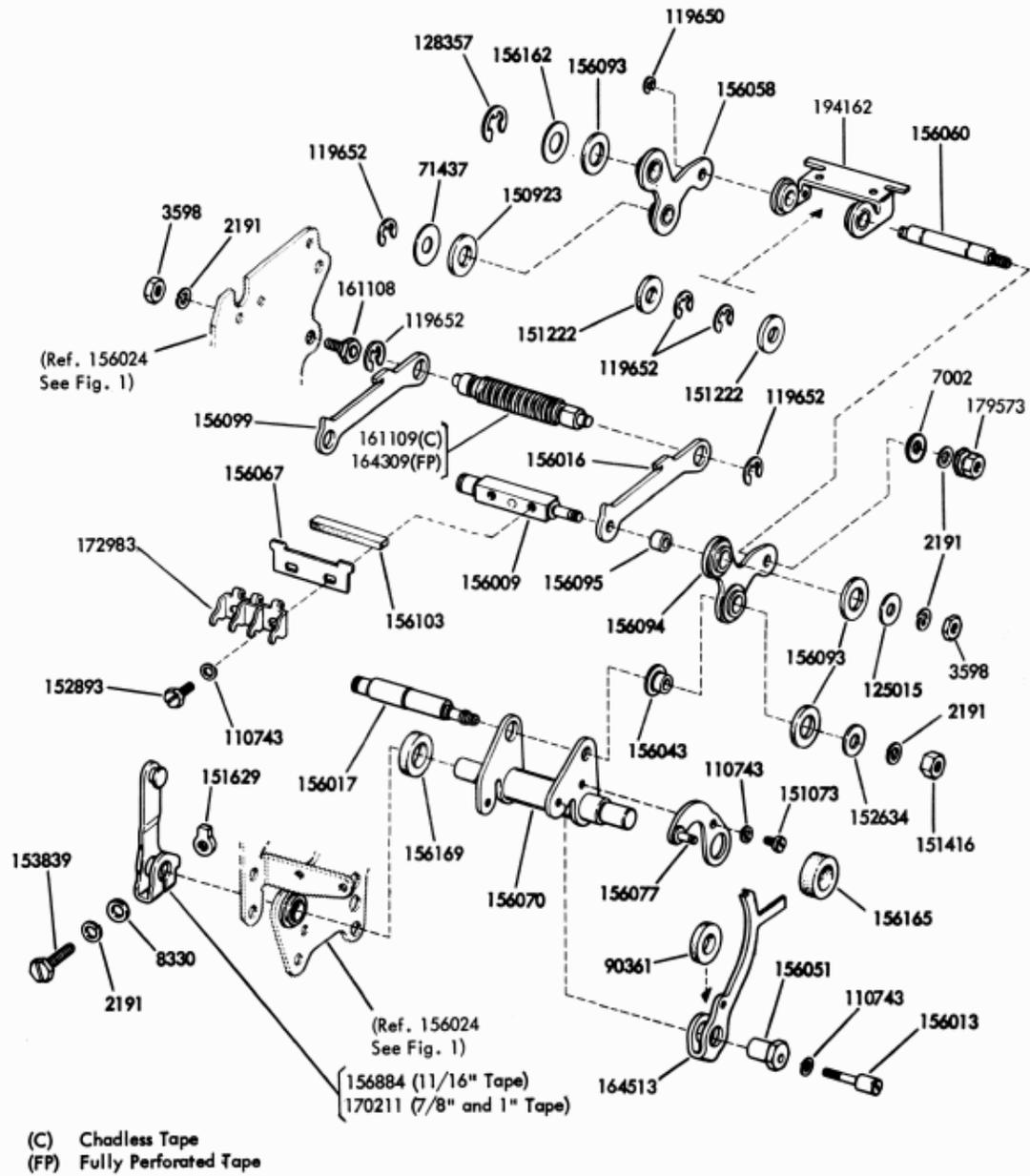
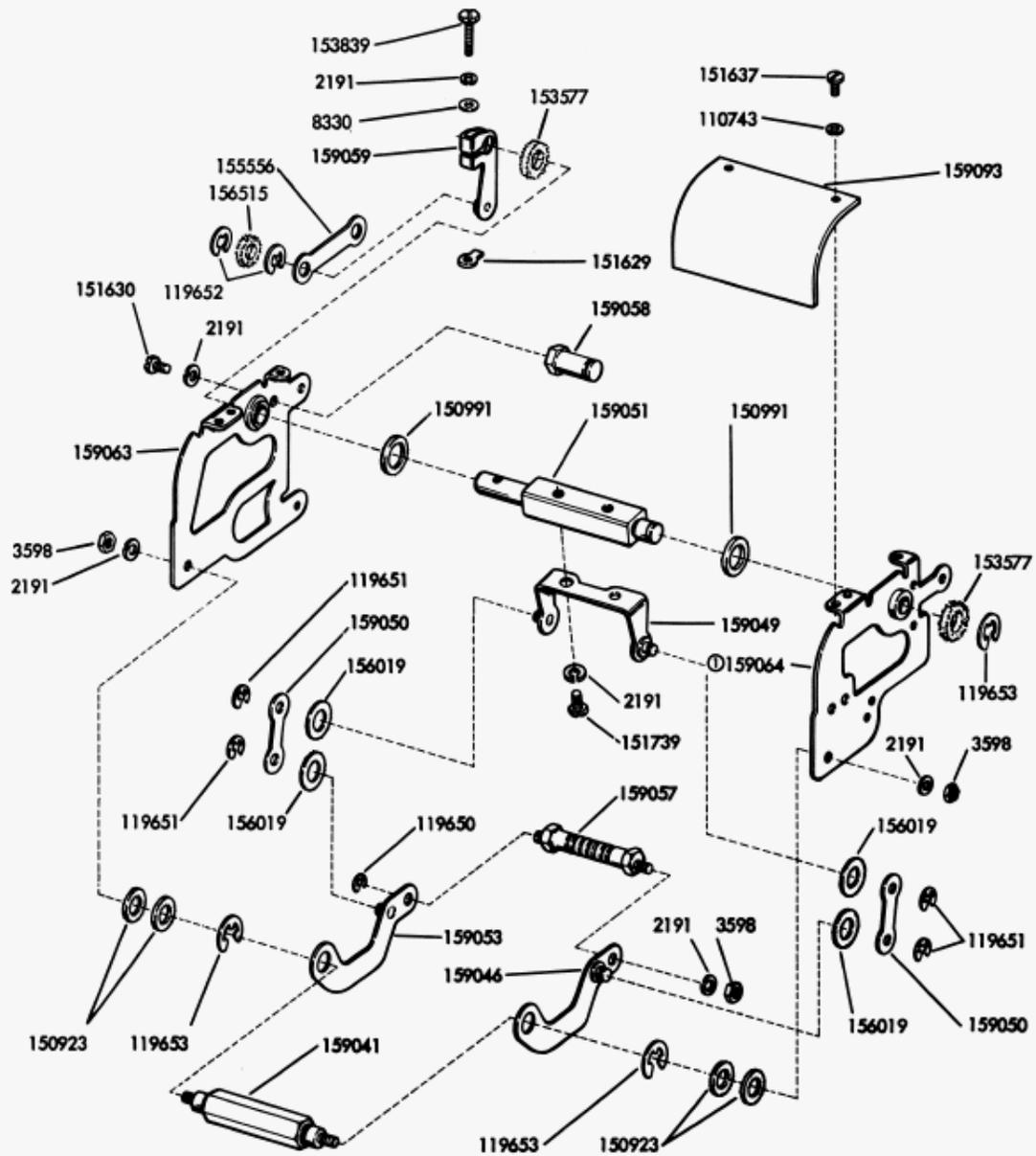


FIGURE 3. PUNCH BAIL MECHANISM



⊙ Peculiar to units equipped with contacts to verify six characters after perforation. See Figure 7 for parts peculiar to units with contacts to verify one character after perforation.

FIGURE 4. VERIFIER CONTACT MECHANISM

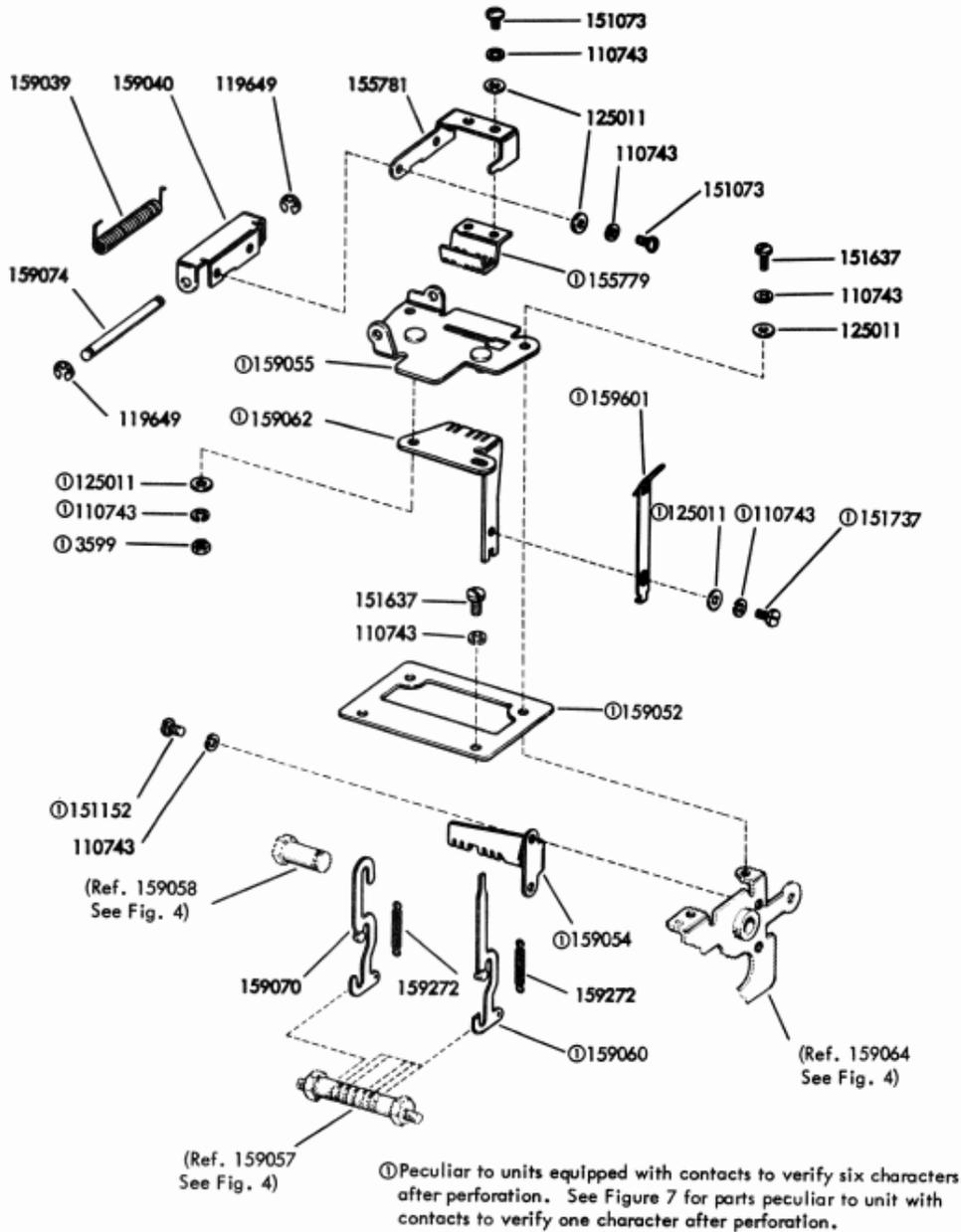
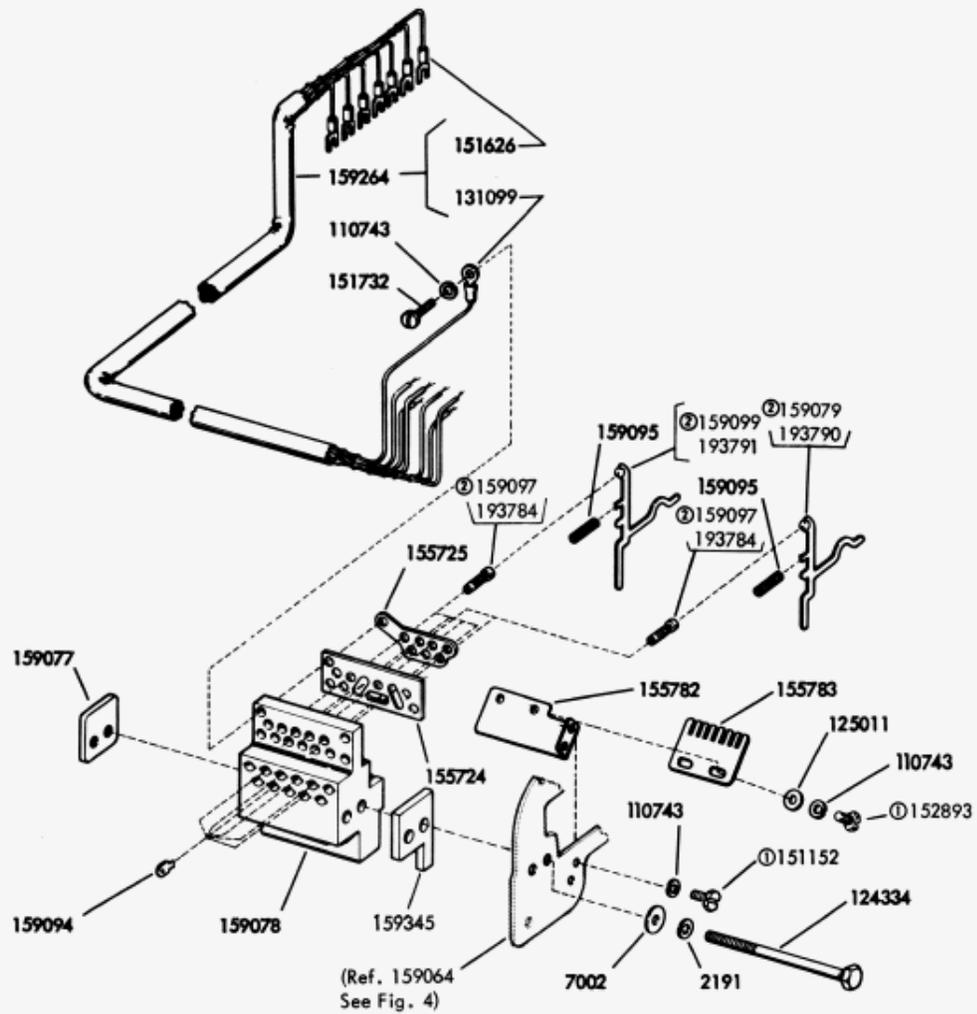


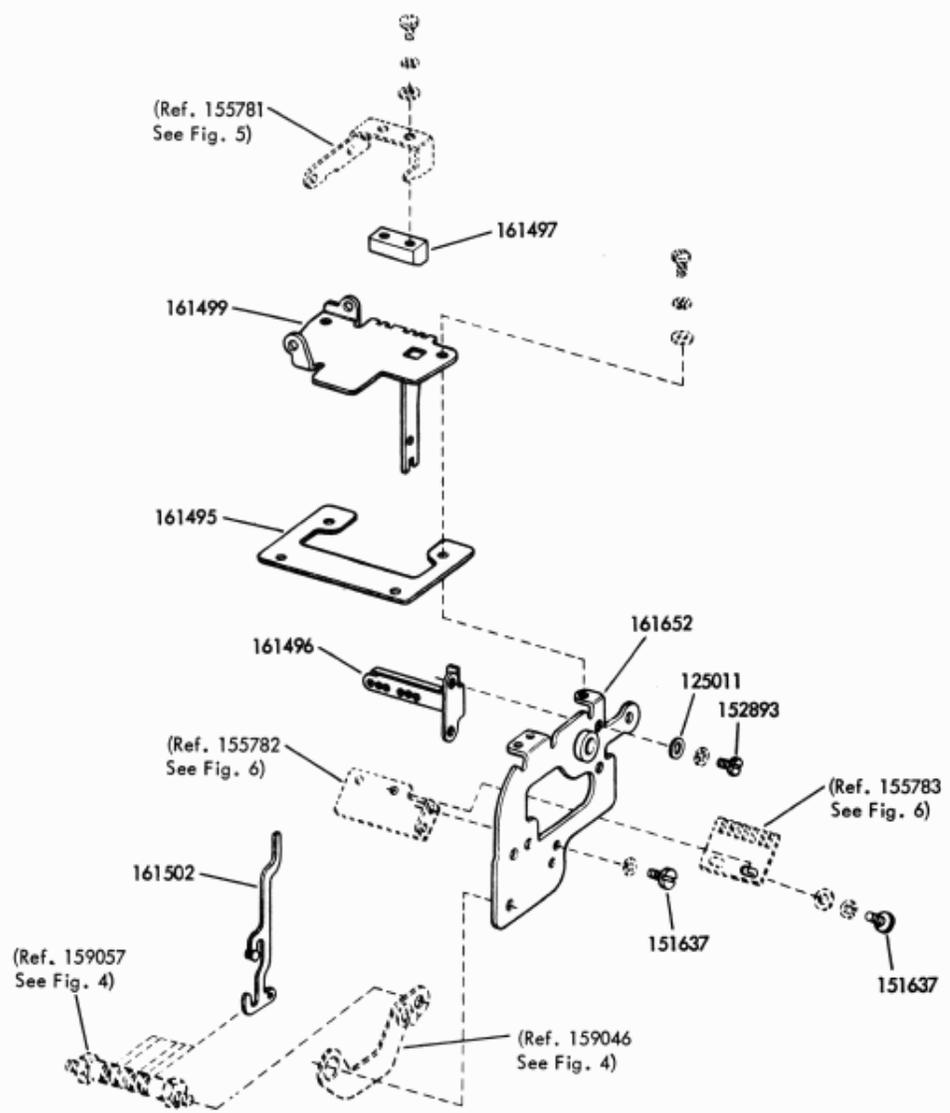
FIGURE 5. VERIFIER CONTACT MECHANISM



① Peculiar to units equipped with contacts to verify six characters after perforation. See Figure 7 for parts peculiar to units with contacts to verify one character after perforation.

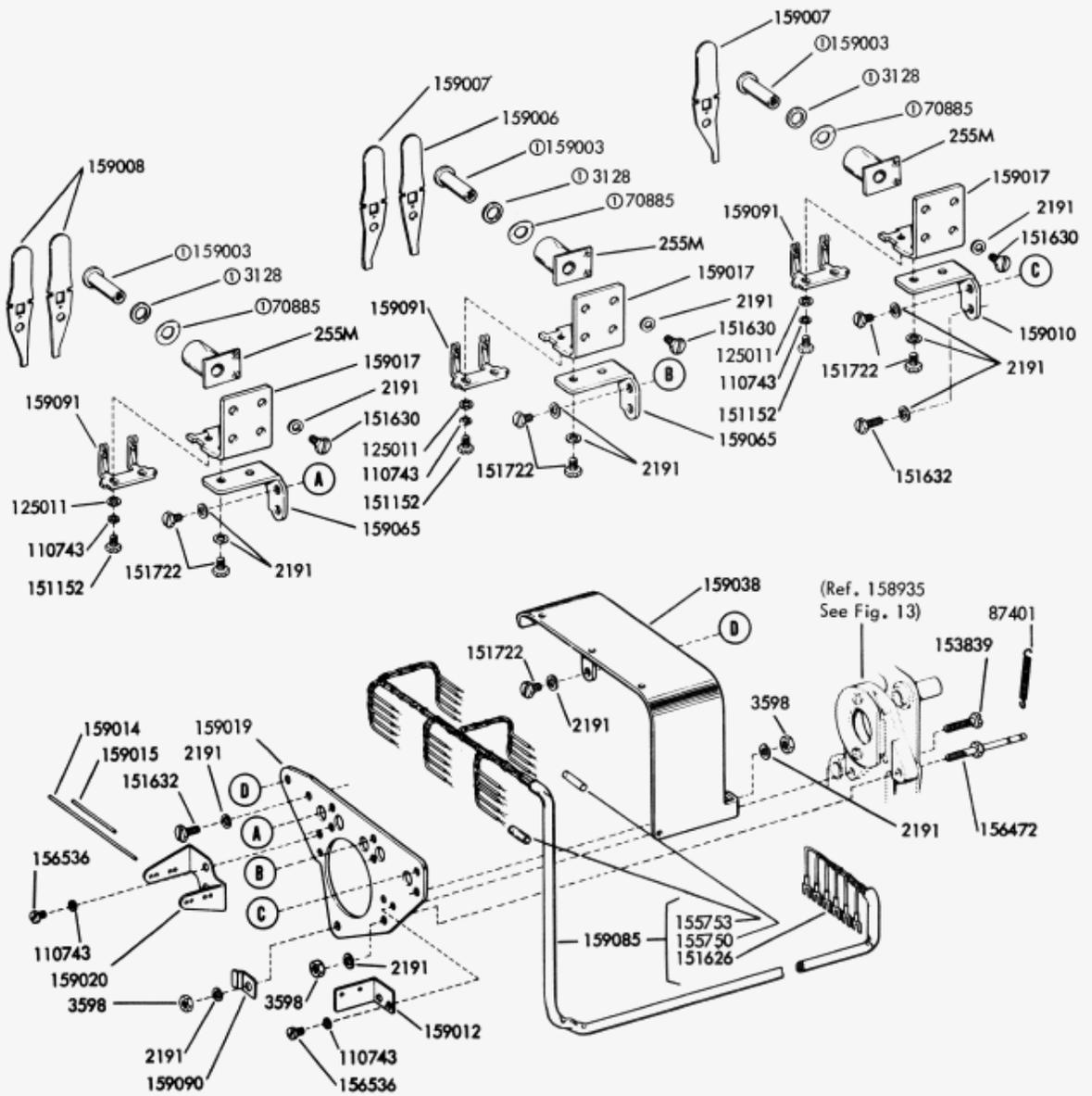
② Early Design

FIGURE 6. VERIFIER CONTACT MECHANISM



Note: All parts shown on this page are peculiar to units equipped with contacts to verify one character after perforation.

FIGURE 7. VERIFIER CONTACT MECHANISM



⓪ No Longer Required With Redesigned Magnet Coil

FIGURE 8. CODE SELECTOR MECHANISM

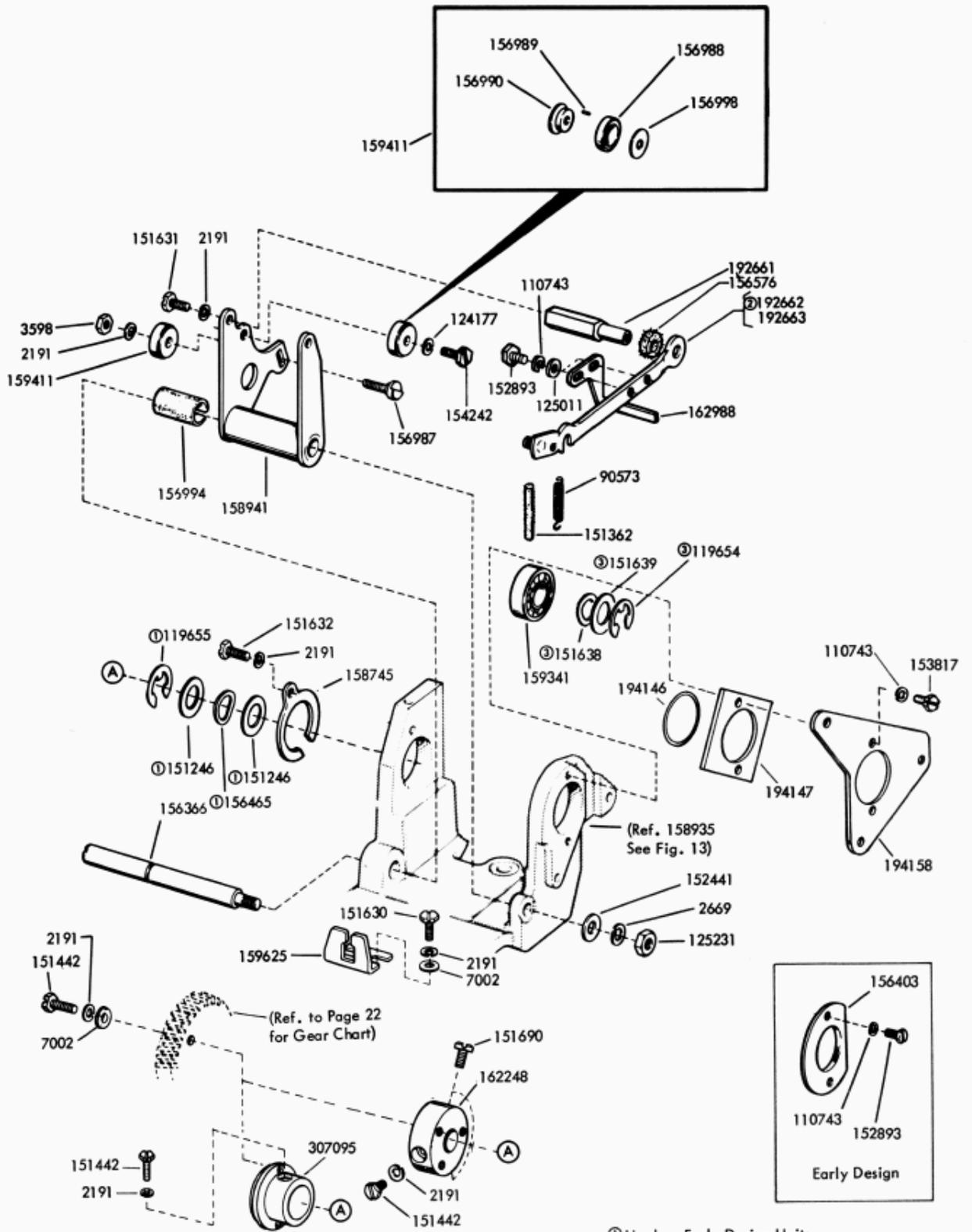


FIGURE 9. ROCKER BAIL MECHANISM

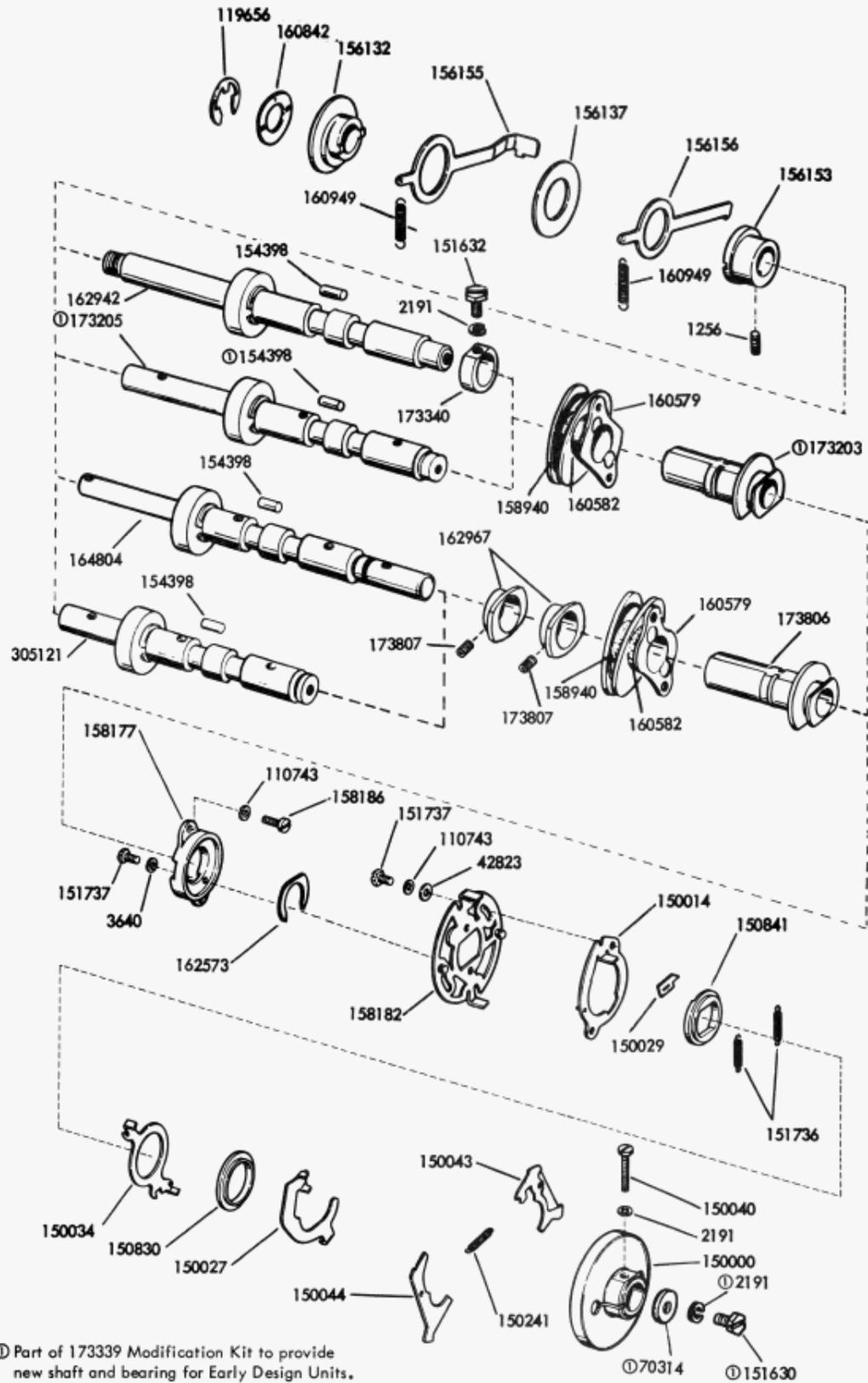


FIGURE 10. MAIN SHAFTS

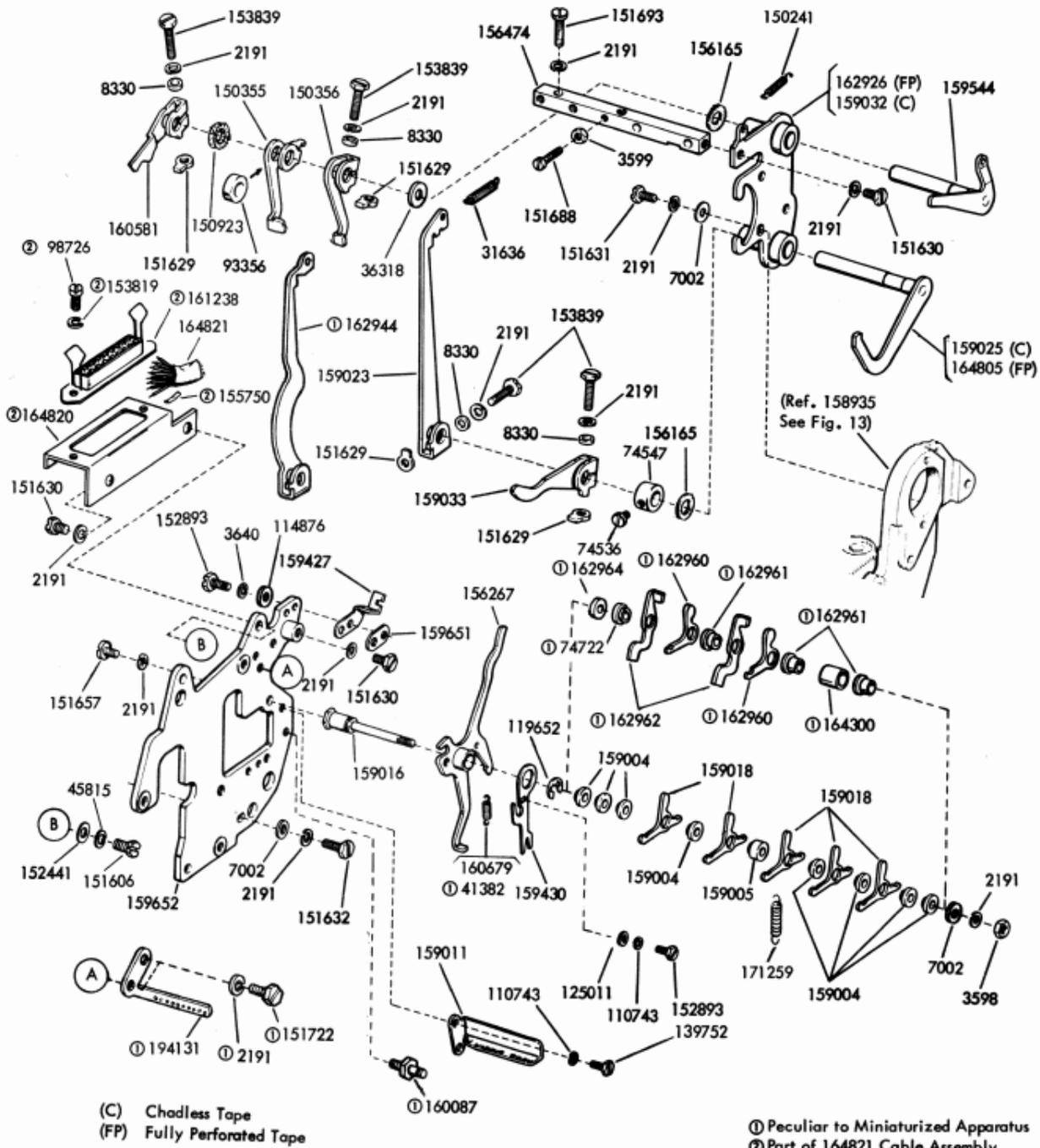


FIGURE 11. MAIN PLATE

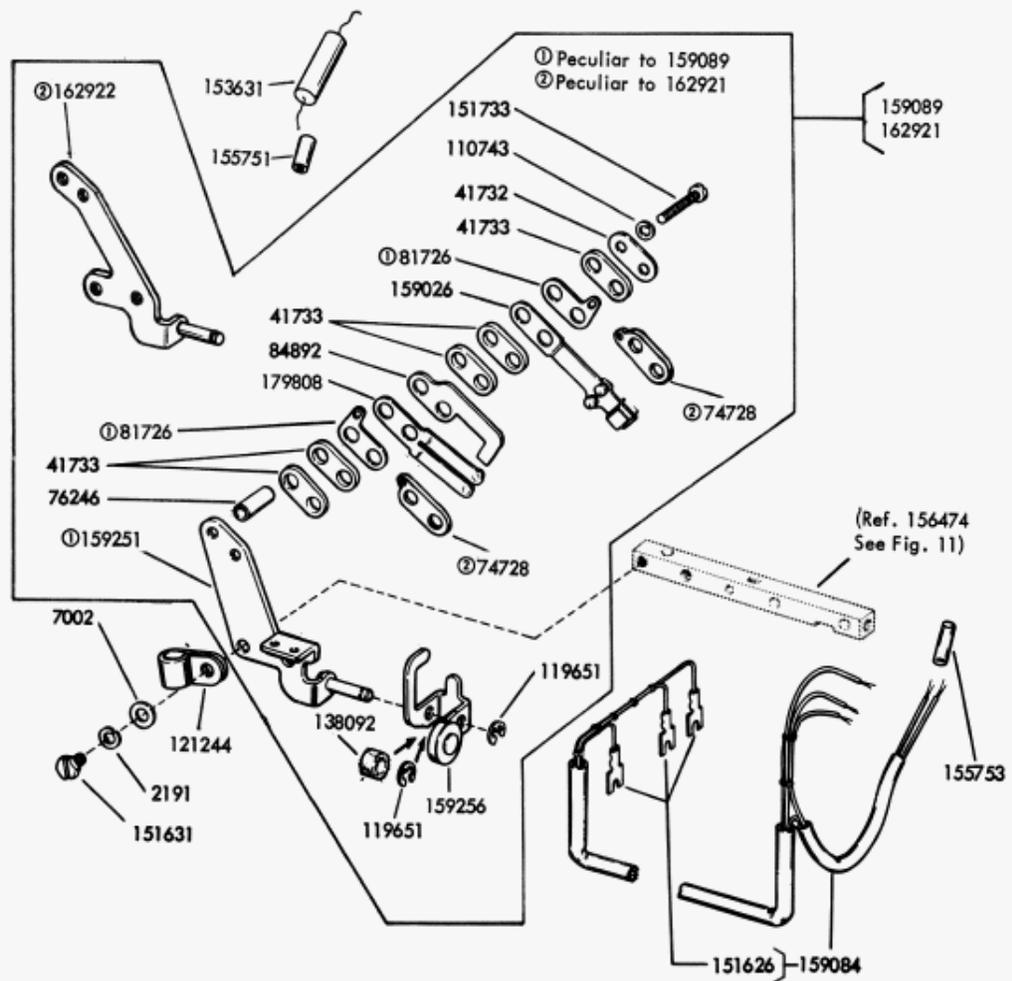


FIGURE 12. MAGNET RELEASE CONTACT MECHANISM

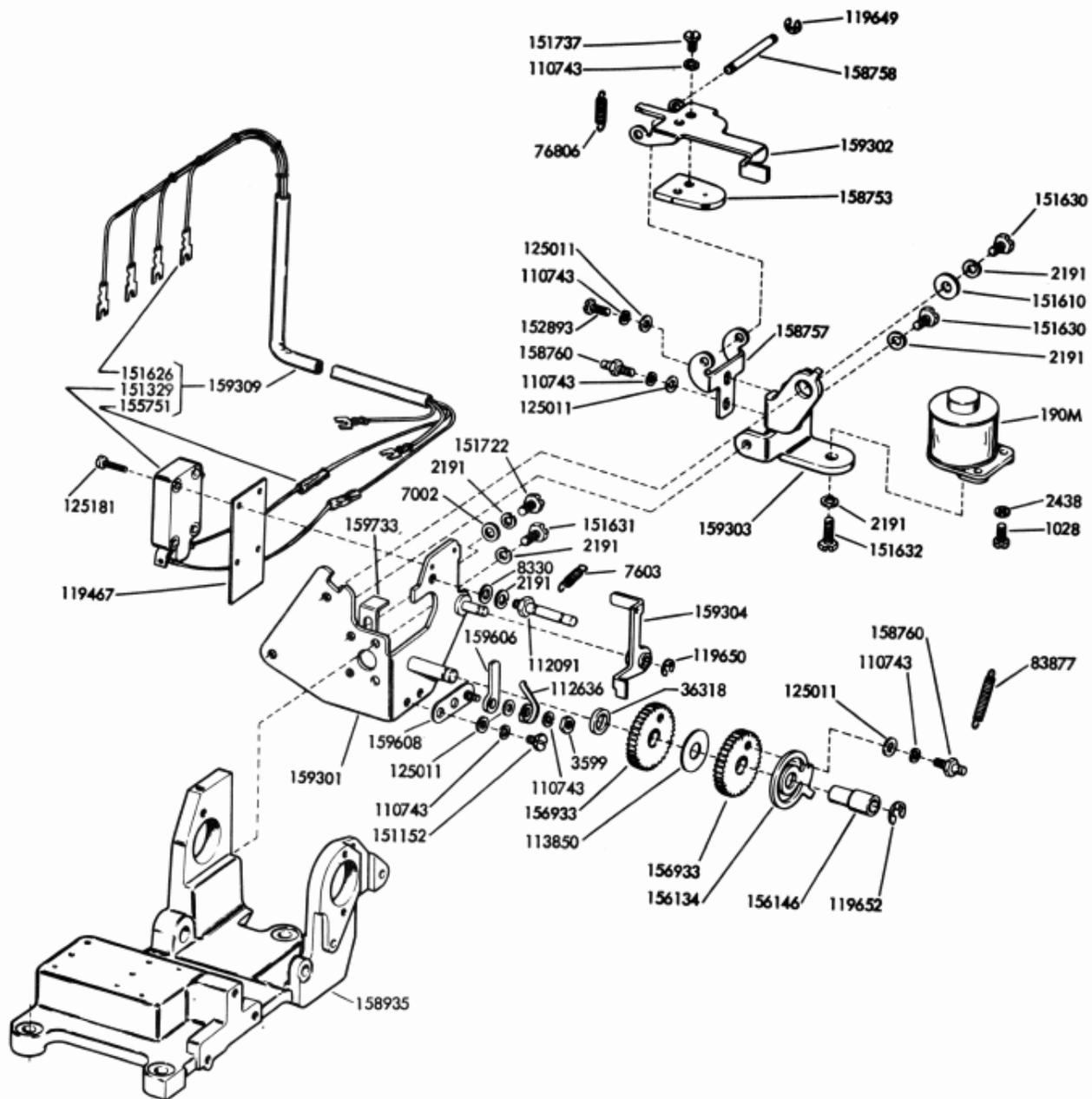


FIGURE 13. TAPE FEED-OUT MECHANISM

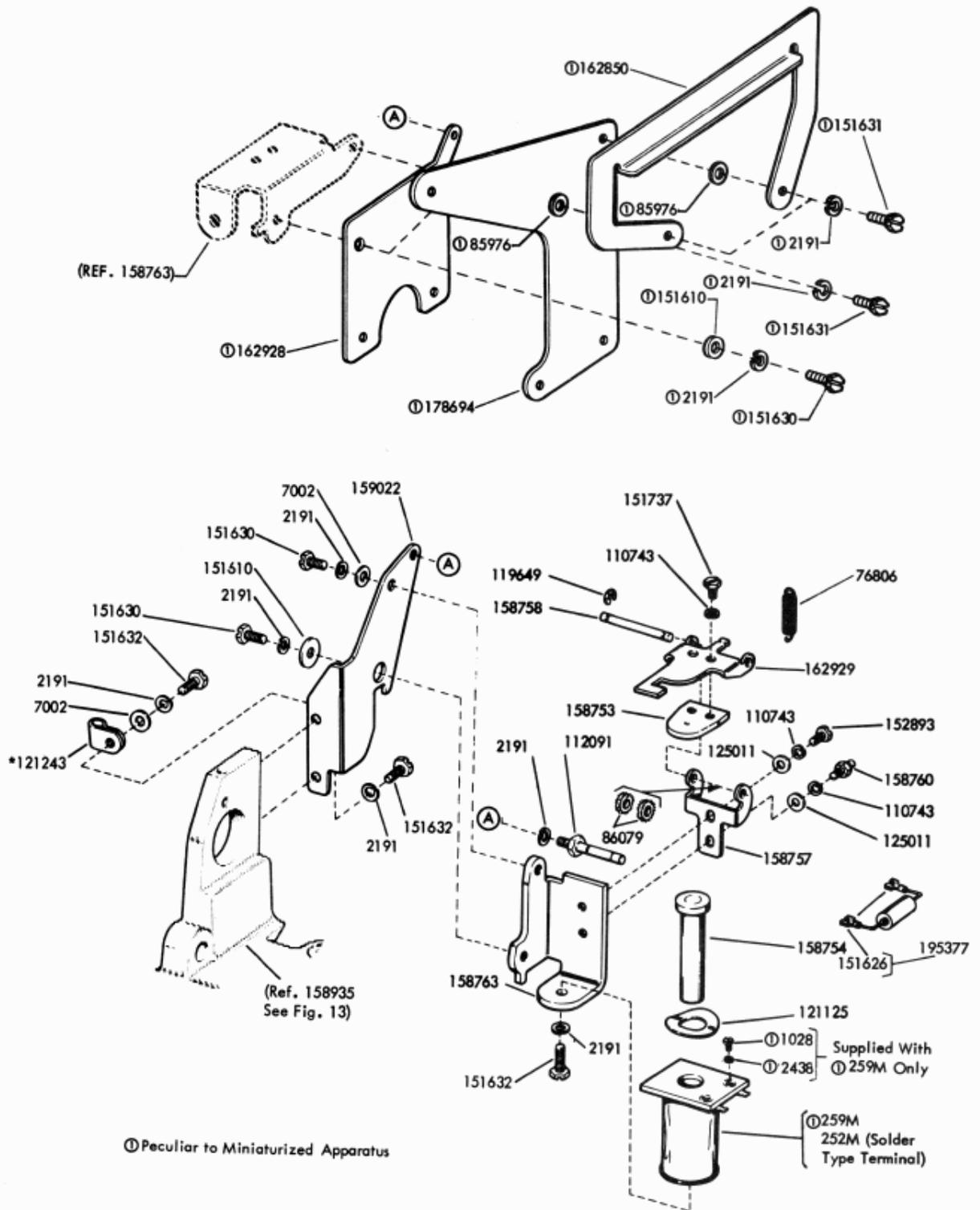
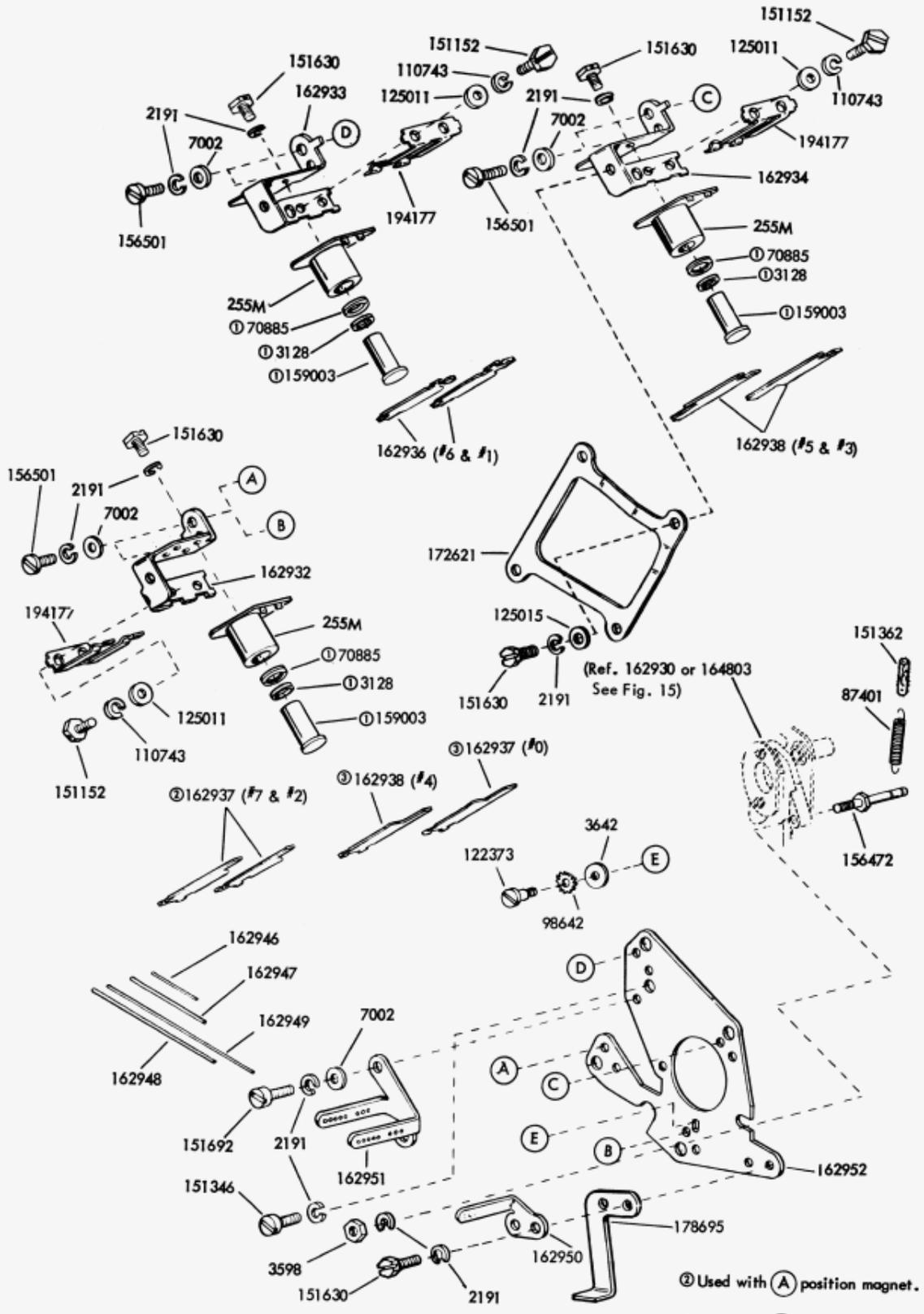


FIGURE 14. CLUTCH TRIP MECHANISM



⓪ No Longer Required With Redesigned Magnet Coil

ⓐ Used with (A) position magnet.
 ⓑ Used with (B) position magnet.

FIGURE 16. CODE SELECTOR MECHANISM (MINIATURIZED)

SECTION 573-120-800

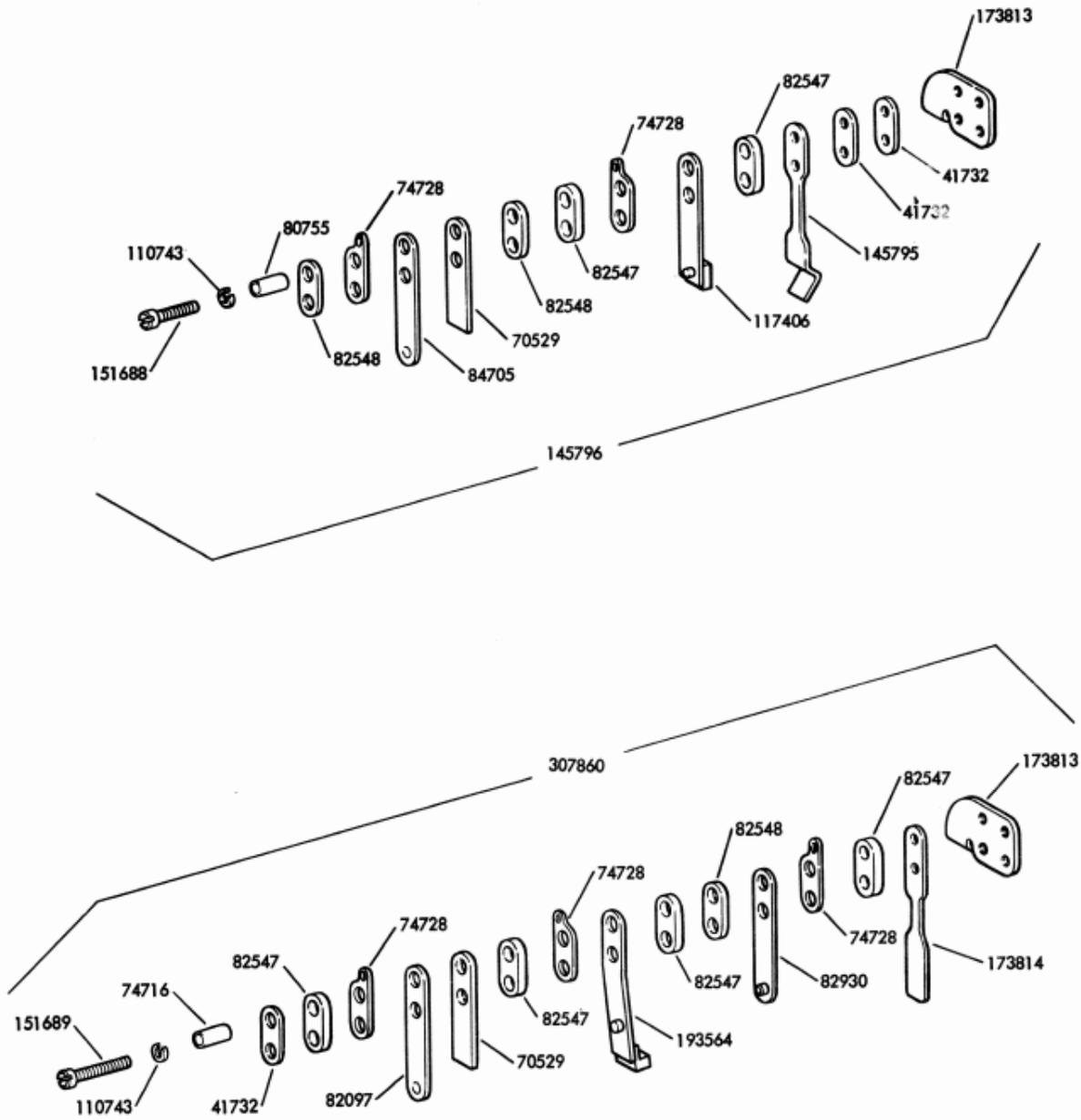
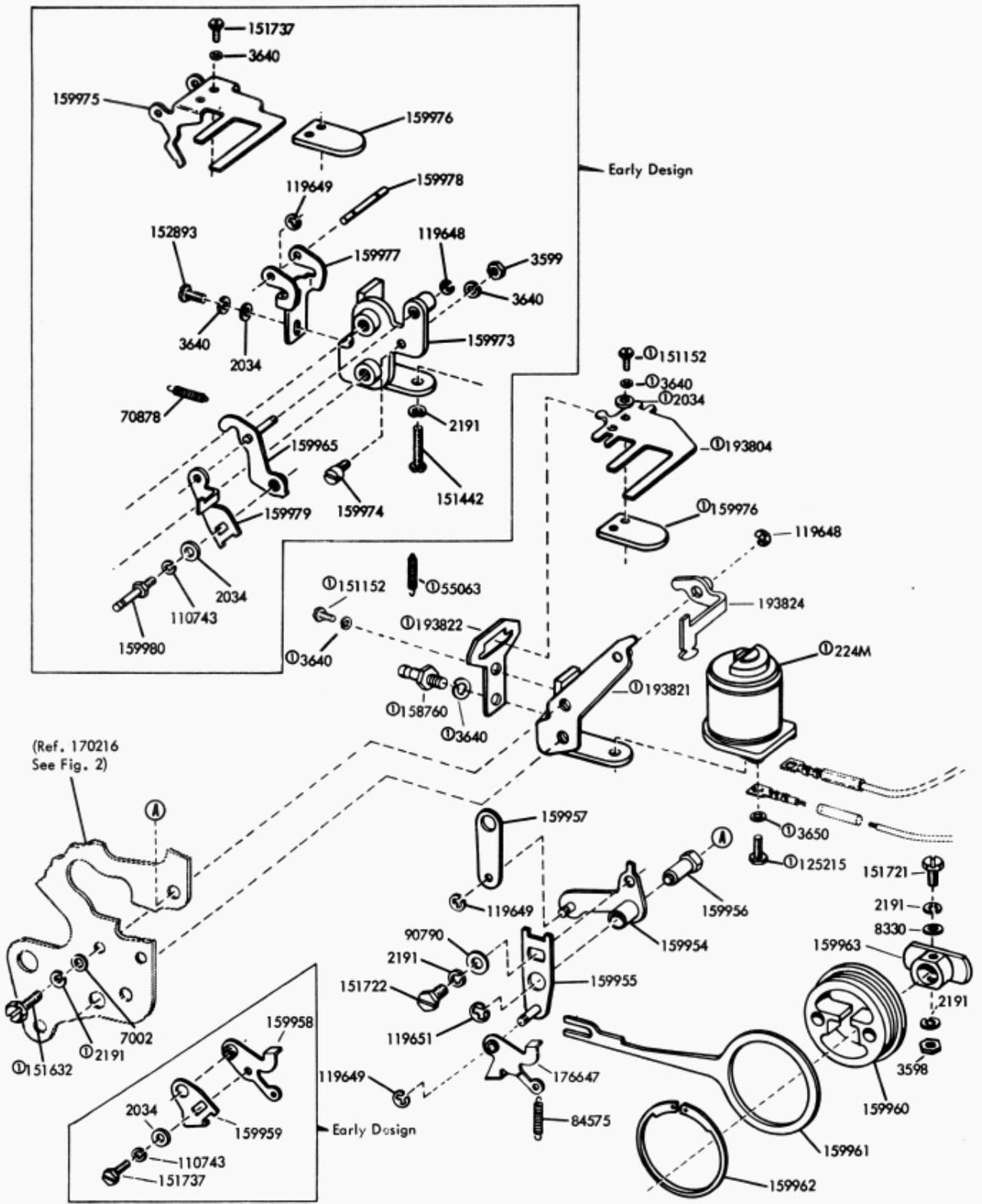


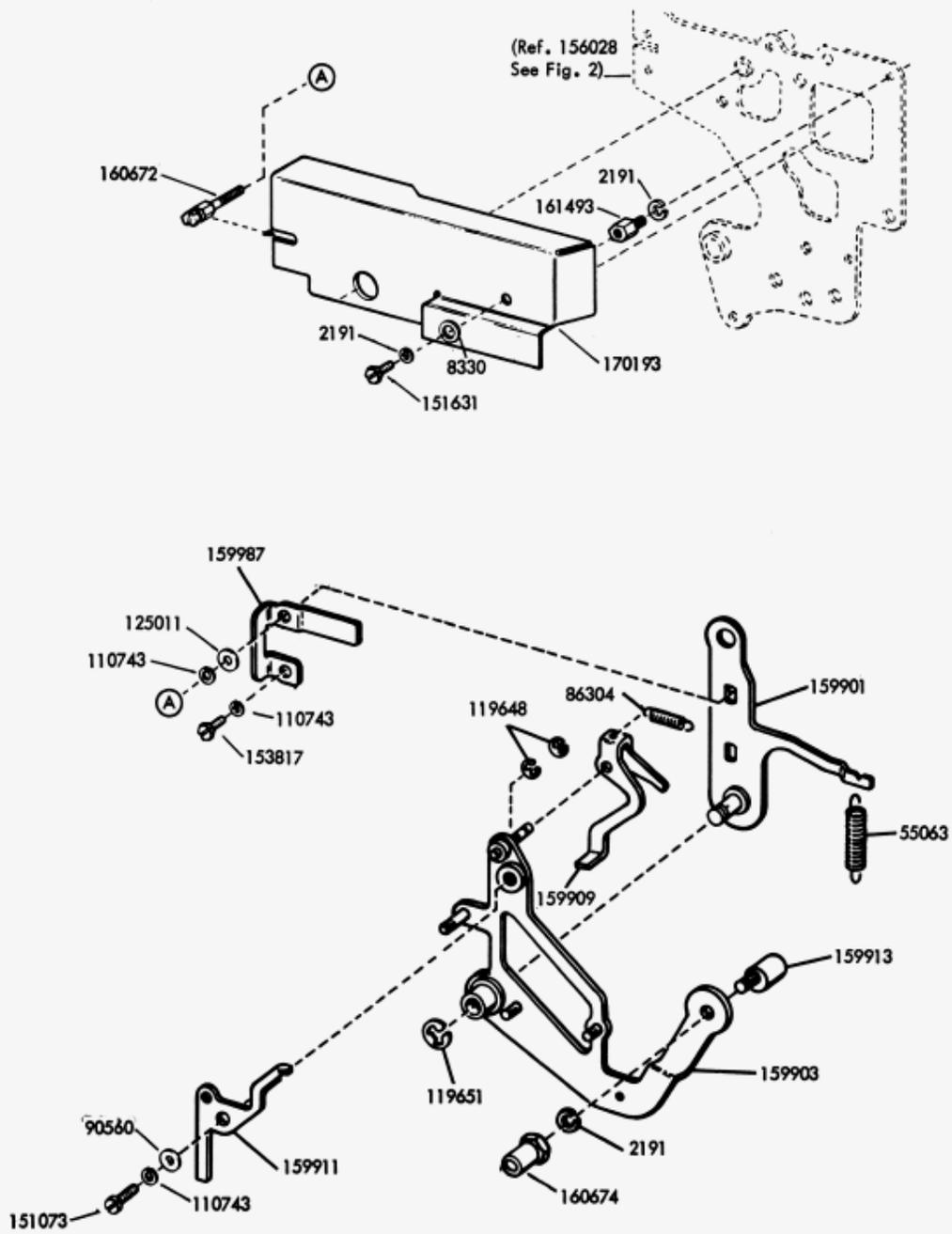
FIGURE 17. AUXILIARY CONTACT ASSEMBLIES



Ⓐ Part of 193825 Backspace Magnet Assembly

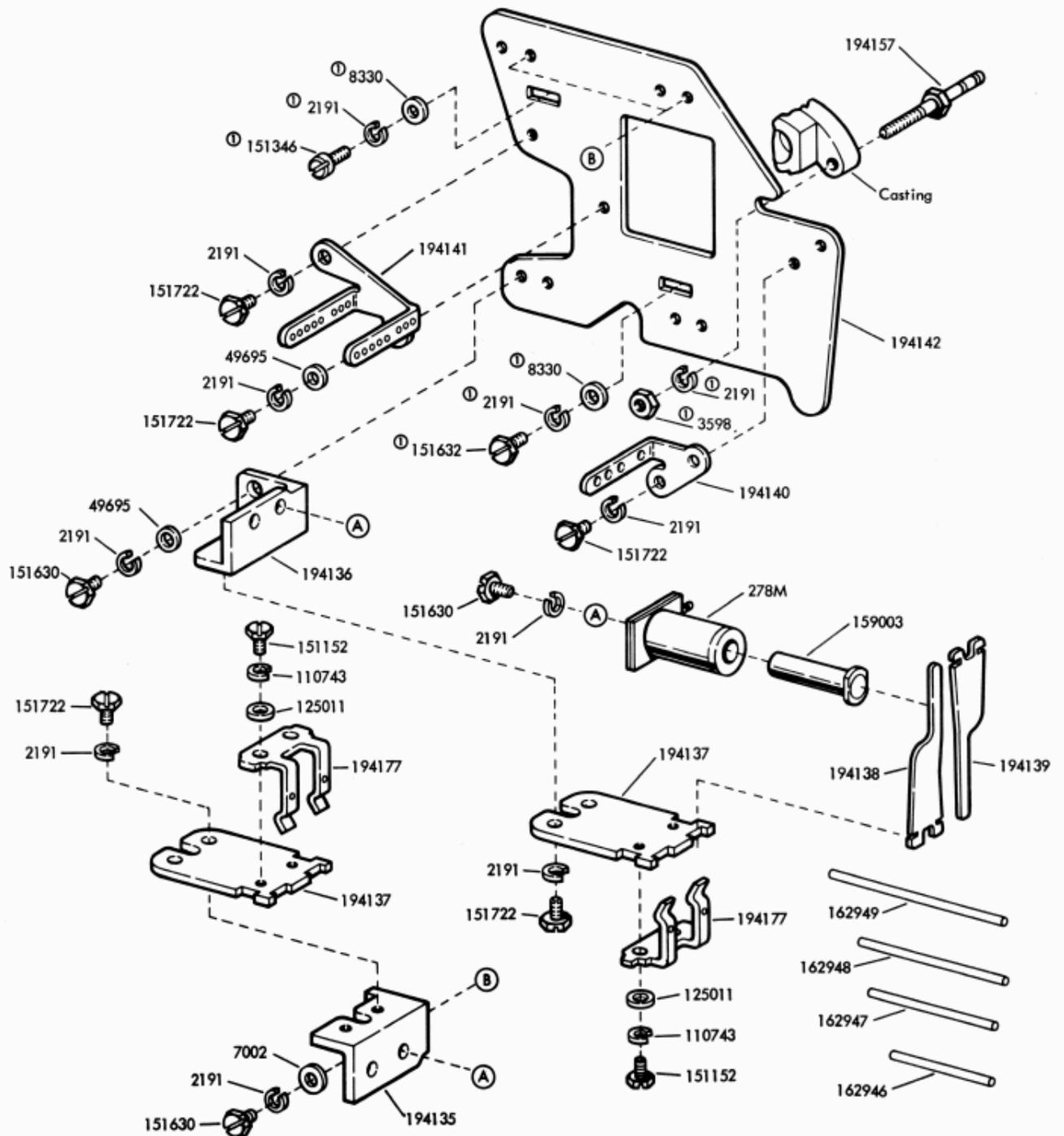
(For additional parts see Figure, 19)

FIGURE 18. 178697 MODIFICATION KIT TO ADD POWER BACKSPACE MECHANISM



(For additional parts see Figure 18)

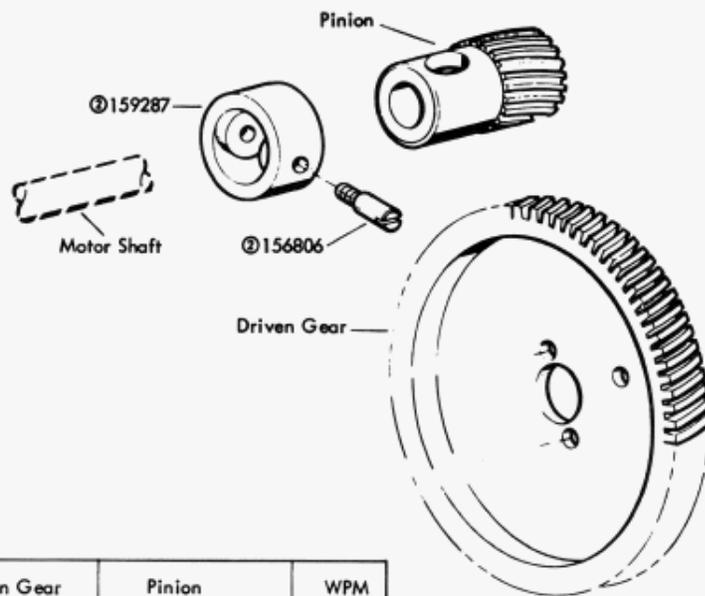
FIGURE 19. 178697 MODIFICATION KIT TO ADD POWER BACKSPACE MECHANISM



Punch Pin Position	#0	#1	#2	#3	#4	#5	#6	#7
Armature Number Used	194139	194139	194139	194138	194138	194138	194139	194139
	5 Level		6 Level		8 Level			

Ⓛ Not Part of 194143

FIGURE 20. 194143 CODE MAGNET SELECTOR ASSEMBLY



Gear Set	Driven Gear	Pinion	WPM
144993	144758-92T	144757-23T	100
178179	159036-42T (S)	178180-7T (N) ①159037-7T (S)	200
—	305124-78T	305125-13T	100

N = Nylon
S = Steel

① Must order separately, not part of 178179 Gear Set
② Part of 178179 Gear Set

FIGURE 21. GEAR CHART

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
190M	Coil, Magnet 14	90560	Washer, Flat 20	151229	Washer, Flat 16
224M	Coil, Magnet 19	90573	Spring 10	151246	Washer, Flat 10
252M	Coil, Magnet 15	90790	Washer, Flat 19	151329	Switch, Sensitive 14
255M	Coil, Magnet 9, 17	90791	Washer, Lock 3	151346	Screw (6-40 x 3/8 Fil) 17, 21
259M	Coil, Magnet 15	91120	Spring 3	151362	Wick, Felt 10, 17
278M	Coil, Magnet 21	93356	Washer, Felt 3, 12	151416	Nut (6-40 Hex) 3, 4
1028	Screw (4-40 x 1/4 Fil) 14, 15	98642	Washer, Lock 17	151442	Screw (6-40 x 1/2 Hex) 2, 10, 19
1036	Nut (6-40 Hex) 3	98726	Screw (3-48 x 1/4 Fil) 12, 16	151572	Washer, Lock 16
1256	Screw, Set (6-40) 11	110743	Washer, Lock 2 to 7, 9 to 21	151606	Screw (10-32 x 1/4 Hex) 12, 16
2034	Washer, Flat 19	112091	Post, Spring 14, 15	151610	Washer, Flat 14, 15
2191	Washer, Lock 2 to 5, 7, 9 to 17, 19, 20, 21	112626	Nut (10-32 Hex) 14	151626	Terminal 7, 9, 13 to 16
2438	Washer, Flat 14, 15	113850	Washer, Flat 14	151629	Nut (6-40 Lug) 4, 5, 12
2669	Washer, Lock 10	114876	Washer, Flat 12	151630	Screw (6-40 x 1/4 Hex) 2, 3, 5, 9 to 12, 14 to 17, 21
3128	Washer, Flat 9, 17	117406	Spring, Contact 18	151631	Screw (6-40 x 5/16 Hex) 10, 12 to 16, 20
3438	Washer, Flat 16	119467	Insulator (.032" Thk) 14	151632	Screw (6-40 x 3/8 Hex) 2, 9 to 12, 14, 15, 19, 21
3598	Nut (6-40 Hex) 2 to 5, 9, 10, 12, 17, 19, 21	119647	Ring, Retaining 3	151637	Screw (4-40 x 1/4 Fil) 2, 5, 6, 8
3599	Nut (4-40 Hex) 2, 6, 12, 14, 19	119648	Ring, Retaining 2, 3, 19, 20	151638	Washer, Spring 10
3639	Washer, Lock 16	119649	Ring, Retaining 3, 6, 14, 15, 19	151639	Washer, Flat 10
3640	Washer, Lock 11, 12, 19	119650	Ring, Retaining 4, 5, 14	151657	Screw (6-40 x 1/4 Fil) 12, 16
3642	Washer, Flat 17	119651	Ring, Retaining 5, 13, 19, 20	151688	Screw (4-40 x 5/8 Fil) 12, 18
3650	Washer, Flat 19	119652	Ring, Retaining 3, 4, 5, 12, 14	151689	Screw (4-40 x 3/4 Fil) 18
5363	Spring, Compression 3	119653	Ring, Retaining 5	151690	Screw (10-32 x 5/16 Fil) 10
7002	Washer, Flat 2, 3, 4, 7, 10, 12 to 17, 19, 21	119654	Ring, Retaining 10	151692	Screw (6-40 x 3/16 Fil) 17
7603	Spring 14	119655	Ring, Retaining 10	151693	Screw (6-40 x 9/16 Fil) 12
8330	Washer, Flat 4, 5, 12, 14, 19, 20, 21	119656	Ring, Retaining 11	151721	Screw (6-40 x 3/4 Hex) 19
31636	Spring 12	121125	Washer, Spring 15	151722	Screw (6-40 x 3/16 Hex) 2, 9, 12, 14, 16, 19, 21
36318	Washer, Flat 12, 14	121243	Clamp, Cable (3/16" ID) 15	151724	Screw (10-32 x 5/8 Hex) 16
41382	Spring 3, 12	121244	Clamp, Cable (1/4" ID) 13	151732	Screw (4-40 x 11/32 Fil) 7
41732	Plate, Clamp 13, 18	122373	Screw, Shoulder (6-40) 17	151733	Screw (4-40 x 9/16 Fil) 13
41733	Insulator (.062" Thk) 13	124177	Washer, Lock 10	151736	Spring 11
42823	Washer, Flat 11	124334	Screw (6-40 x 1-27/32 Hex) 7	151737	Screw (4-40 x 11/64 Hex) 6, 11, 14, 15, 19
45815	Washer, Lock 12, 16	125011	Washer, Flat 2, 6 to 10, 12, 14 to 17, 20, 21	151739	Screw, Identification (6-40) 5
49695	Washer, Flat 21	125015	Washer, Flat 4, 16, 17	152441	Washer, Flat 12, 16
55063	Spring 2, 19, 20	125181	Screw (2-56 x 3/8 Fil) 14	152634	Washer, Flat 4
61085	Washer, Lock 16	125215	Screw (4-40 x 3/16 Hex) 19	152893	Screw (4-40 x 1/4 Hex) 2, 3, 4, 7, 8, 10, 12, 14, 15, 16, 19
70314	Washer, Flat 11	125231	Nut (10-32 Hex) 10	153267	Washer, Felt 2
70529	Stiffener 18	128357	Ring, Retaining 4	153577	Washer, Felt 5
70878	Spring 19	131099	Terminal 7	153631	Network, Spark Suppression 13
70885	Washer, Spring 9, 17	138092	Knob 13	153799	Screw (4-40 x 21/64 Hex) 2
71437	Washer, Flat 4	139752	Screw (4-40 x 11/64 Fil) 12	153817	Screw (4-40 x 3/8 Hex) 10, 20
74014	Screw (10-32 x 3/4 Hex) 16	142953	Post 16	153819	Washer, Lock 12, 16
74536	Screw, Set (6-40) 12	144757	Gear (23T) 22	153839	Screw (6-40 x 5/8 Hex) 4, 5, 9, 12
74547	Collar 12	144758	Gear (92T) 22	154242	Screw (6-40 x 5/16 Hex) 10
74716	Bushing 18	144993	Gear Set (100 WPM) 22	154398	Bearing, Needle 11
74722	Washer, Flat 12	145795	Follower 18	154457	Guide, Tape 3
74728	Terminal, Contact 13, 18	145796	Contact Assembly, Auxiliary 18	154698	Wick, Felt 3
76246	Bushing, Insulating 13	150000	Drum, Clutch 11	155556	Link 5
76806	Spring 14, 15	150014	Disk, Adjusting 11	155724	Strip, Insulating 7
80755	Bushing, Insulating 18	150027	Lever, Shoe Release 11	155725	Plate 7
81726	Terminal 13	150029	Wick, Felt 11	155750	Sleeve, Insulating (3/32 ID x 1/2" Lg) 9, 12
82097	Spring, Contact 18	150034	Disk, Clutch (2 Stop) 11	155751	Sleeve, Insulating (1/8 ID x 1" Lg) 13, 14
82547	Insulator (.094" Thk) 18	150040	Screw (6-40 x 5/8 Fil) 11	155753	Sleeve, Insulating (1/8 ID x 1/2" Lg) 9, 13, 16
82548	Insulator (.062" Thk) 18	150043	Shoe, Secondary Clutch 11	155754	Sleeve, Insulating (1/16 ID x 1/2" Lg) 16
82930	Spring, Contact 18	150044	Shoe, Primary Clutch 11	155779	Plate, Lid 6
83877	Spring 14	150241	Spring 11, 12		
84575	Spring 19	150355	Lever, Latch 12		
84705	Spring, Contact 18	150356	Lever, Trip 12		
84892	Stiffener 13	150830	Bushing, Shoulder 11		
85976	Washer, Flat 15	150841	Bearing 11		
86079	Washer, Felt 15	150923	Washer, Felt 4, 5, 12		
86304	Spring 20	150991	Washer, Felt 5		
87401	Spring 9, 17	151073	Screw (4-40 x 5/32 Fil) 2, 4, 6, 20		
90361	Washer, Felt 4	151152	Screw (4-40 x 3/16 Hex) 2, 6, 7, 9, 14, 17, 19, 21		
		151222	Washer, Felt 4		

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Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
155781	Bracket 6	156806	Post 22	159074	Shaft 6
155782	Bracket 7	156884	Arm, Rocker 4	159077	Plate, Nut 7
155783	Plate 7	156933	Ratchet (36T) 14	159078	Block, Contact 7
156008	Wheel, Feed 3	156987	Screw (6-40 Spl) 10	159079	Lever 7
156009	Post, Slide 4	156988	Race, Inner 10	159084	Cable w/Terminals 13
156012	Spring, Punch Block 2	156989	Bearing 10	159085	Cable w/Terminals 9
156013	Screw (4-40 Spl) 4	156990	Race, Inner 10	159089	Contact Assembly, Magnet Release 13
156015	Plate, Spring 2	156994	Strip, Felt 10	159090	Guide 9
156016	Link, Front Drag 4	156998	Retainer, Roller 10	159091	Bracket w/Spring 9
156017	Shaft, Eccentric 4	158177	Collar 11	159093	Plate 5
156019	Washer, Felt 3, 5	158182	Disk, Clutch Cam 11	159094	Plate 7
156020	Slide 2	158186	Screw (4-40 x 7/32 Fil) 11	159095	Spring 7
156024	Plate, Rear 2	158745	Clamp, Bearing 10	159097	Screw, Contact (4-40) 7
156028	Plate, Front 3	158753	Armature, Magnet 14, 15	159099	Lever 7
156036	Guide, Tape 3	158754	Core, Magnet 15	159251	Bracket w/Stud 13
156040	Post 3	158757	Hinge, Mounting 14, 15	159256	Bail 13
156042	Post, Spacing 3	158758	Shaft 14, 15	159264	Cable w/Terminals 7
156043	Bushing 4	158760	Post, Spring 14, 15, 19	159272	Spring 6
156044	Stud, Die Wheel 3	158763	Bracket 15	159287	Retainer, Pinion 22
156045	Shaft, Feed Wheel 3	158935	Frame 14	159301	Frame 14
156046	Block, Tape Guide 2	158940	Wick, Felt 11	159302	Bail 14
156047	Spring, Torsion 3	158941	Bail, Rocker 10	159303	Bracket 14
156050	Stud, Eccentric 3	159003	Core 9, 17, 21	159304	Lever, Switch 14
156051	Bushing, Eccentric 4	159004	Spacer, Bearing 12	159309	Cable Assembly 14
156052	Shoe, Tape 3	159005	Spacer, Bearing 12	159341	Bearing, Ball 10
156054	Lever, Detent 3	159006	Armature, #5 & #6 9	159345	Block, Spacing 7
156055	Wheel, Die 3	159007	Armature, #2 & #3 9	159411	Bearing Assembly 10
156058	Link, Rear 4	159008	Armature, #1 & #4 9	159427	Bracket, Stop 12
156060	Shaft, Eccentric 4	159010	Bracket 9	159430	Lever, Slide Trip 12
156061	Arm, Tape Shoe 3	159011	Bracket, Spring 12	159544	Release, Clutch 12
156062	Post, Pivot 3	159012	Bracket, Rod 9	159560	Spring 2
156067	Guide, Slide Post 4	159014	Rod, 2-15/16" Lg 9	159601	Bracket, Spring 6
156070	Bail, Toggle 4	159015	Rod, 1-15/32" Lg 9	159606	Pawl, Check 14
156077	Plate w/Post 4	159016	Post, Guide 12	159608	Plate 14
156089	Slide w/Insulator 2	159017	Yoke 9	159625	Bracket, Bail Guide 10
156090	Screw, Adjusting (6-40) 3	159018	Pawl, Blocking 12	159651	Plate, Nut 12
156093	Washer, Felt 4	159019	Plate 9	159652	Plate w/Bushing 12
156094	Link, Front 4	159020	Guide 9	159656	Block Assembly, Punch 2
156095	Bushing 4	159022	Bracket, Magnet 15	159733	Upstop, Armature 14
156103	Strip, Felt 4	159023	Lever, Trip 12	159901	Plate w/Post 20
156104	Shaft 2	159025	Lever w/Shaft 12	159903	Bellcrank 20
156106	Bail 2	159026	Spring, Contact 13	159909	Pawl, Feed 20
156132	Bearing, Eccentric 11	159032	Plate 12	159911	Plate 20
156134	Plate, Adjusting 14	159033	Lever, Reset 12	159913	Screw, Eccentric (6-40) 20
156137	Washer, Flat 11	159036	Gear (42T) 22	159954	Link, Adjusting 19
156146	Spacer 14	159037	Pinion (7T) 22	159955	Link, Drive 19
156153	Collar, Eccentric 11	159038	Guard 9	159956	Post 19
156155	Pawl, Feed 11	159039	Spring, Torsion 6	159957	Link 19
156156	Pawl, Check 11	159040	Bracket 6	159958	Latch 19
156162	Washer, Flat 4	159041	Post 5	159959	Extension 19
156163	Guide 2	159046	Plate, Front 5	159960	Eccentric 19
156165	Washer, Felt 4, 12	159049	Bracket w/Studs 5	159961	Arm, Eccentric 19
156169	Washer, Felt 4	159050	Link 5	159962	Ring, Retaining 19
156172	Rod 2	159051	Shaft, Toggle 5	159963	Hub 19
156173	Stud 2	159052	Plate 6	159965	Arm, Adjusting 19
156184	Bracket, Anchor 16	159053	Plate, Rear 5	159973	Bracket w/Bushing 19
156267	Lever, Trip 12	159054	Bracket, Spring 6	159974	Eccentric 19
156366	Shaft, Rocker Bail 10	159055	Bracket w/Studs 6	159975	Bail, Armature 19
156403	Disk, Bearing 10	159057	Post, Guide 5	159976	Armature 19
156465	Washer, Spring 10	159058	Post 5	159977	Hinge 19
156472	Post, Spring 9, 17	159059	Arm 5	159978	Shaft 19
156474	Bar 12	159060	Slide, Sensing 6	159979	Arm, Non-Repeat 19
156501	Screw (6-40 x 7/32 Fil) 17	159062	Guide 6	159980	Post, Spring 19
156515	Washer, Felt 5	159063	Plate, Rear 5	159987	Bracket, Guide 20
156536	Screw (4-40 x 1/8 Fil) 9	159064	Plate, Front 5	160087	Post, Spring 12
156576	Washer, Felt 10	159065	Bracket 9	160579	Cam 11
156577	Roller, Detent Lever 3	159070	Slide 6		

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160582	Washer, Felt 11	162993	Block Assembly, Punch 2	178694	Plate, Handle Mounting 15
160672	Stud 20	162994	Block Assembly, Punch 2	178695	Foot 17
160674	Nut, Shoulder (6-40) 20	163291	Modification Kit 3	178697	Modification Kit 19, 20
160679	Spring 12	164259	Chute, Tape (1" Tape) 3	178711**	Chute, Chad 16
160842	Washer, Spring 11	164260	Chute, Tape (7/8" Tape) 3	179573	Nut (6-40 Hex) 4
160948	Screw (2-56 Spl) 3	164261	Chute, Tape (11/16" Tape) 3	179808	Spring, Contact 13
160949	Spring 11	164279	Chute, Chad 16	179945	Modification Kit 2
161107	Stud 3	164300	Spacer, .100" Thk 2, 12	179947	Spring, Chad Box 2
161108	Stud 4	164303	Cable w/Terminals 16	179948	Stud, Mounting (2-56) 2
161109	Post, Guide 4	164307	Spring, Punch Block 2	179952	Box, Chad 2
161139	Nut (6-40 Hex) 3	164309	Post, Guide 4	192661	Post 10
161238	Connector, Receptacle (36 Pt) 12, 16	164511	Lever w/Hub 3	192662	Link w/Stud 10
161239	Connector, Plug (36 Pt) 16	164513	Pawl, Feed 4	192663	Link w/Stud 10
161493	Post, Supporting 20	164515	Spring, Torsion 3	193564	Spring, Contact 18
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161496	Bracket, Spring 8	164804	Shaft w/Bearing 11	193790	Lever w/Contact 7
161497	Block, Lid 8	164805	Lever w/Shaft 12	193791	Lever w/Contact 7
161499	Plate 8	164806	Bracket, Receptacle 16	193804	Armature 19
161502	Slide, Sensing 8	164819	Block Assembly, Punch 2	193821	Bracket w/Post 19
161526	Connector, Receptacle (14 Pt) 16	164820	Bracket, Receptacle 12	193822	Clamp 19
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